



PATENT  
Attorney Docket No. P00593-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
DeVore et al. )  
)  
Serial No.: 09/973,263 ) Group Art Unit: 1654  
)  
Filed: October 9, 2001 ) Examiner: Maury A. Audet  
)  
For: METHOD OF MAKING A LIGHT )  
ENERGIZED TISSUE ADHESIVE )

Assistant Commissioner for Patents  
Alexandria, Virginia 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final Action or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

Copies of the listed documents are attached.

Applicant brings to the attention of the Examiner co-pending application Serial Nos. 09/973,335, 09/973,385, and 09/973,332. Selected documents cited herein were also cited in these cases.

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Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

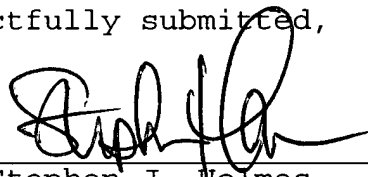
This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicant(s) determine(s) that the cited document(s) do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any additional fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 02-0900.

Respectfully submitted,

By:

  
\_\_\_\_\_  
Stephen J. Holmes  
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
P00593

SERIAL NO.  
09/973,263

APPLICANT: DeVore et al.

FILING DATE 10/09/01

GROUP 1654

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6	1	8	3	4	9	8		Devore et al.			
	5	8	7	4	5	3	7		Kelman et al.			
✓	5	3	5	4	3	3	6		Kelman et al.			
	5	2	9	0	5	5	2		Sierra et al.			
	6	1	3	6	3	4	1		Petito			
	5	8	2	4	0	1	5		Sawyer			
	5	6	1	8	5	5	1		Tardy et al.			
	5	5	5	2	4	5	2		Khadem et al.			
	5	1	5	6	6	1	3		Sawyer			
	6	3	3	5	0	0	7		Shimizu et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBL. DATE	COUNTRY OR PATENT OFFICE	CLAS S	SUBCLASS	TRANSLATION	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

		Guidoin, R, Marceau, D, Coutre, J, Rao, TJ, Merhi, Y, Roy, PE, and De la Fay, D, Collagen coatings as biological sealants for textile arterial prostheses, Biomaterials, 10:642, 1989
		Jakob, H, Campbell, CD, Stemberger, A, Wriedt-Lubbe, I, Blumel, G, and Replogle, RL, Combined application of heterologous collagen and fibrin sealant for liver injuries, J. Surg. Res, 36: 571-577, 1984
		Pfab, R, Asherl, R, Erhardt, W, Geissdorfer, K, Stemberger, A, Blumel, G, and Hartung, Animal experiments on hemostasis with a collagen-fibrin tissue-adhesive sealant in the nephrostomy tract, Urol. Int., 42: 207-209, 1987
		Jonas, RA, Ziemer, G, Shoen, FJ, Britton, L, and Castaneda, AR, A new sealant for knitted Dacron prostheses: minimally crosslinked gelatin, J. Vasc. Surg., 7:414-419, 1988
		San-Galli, F, Darrouzet, V, Riverl, J, Baquay, C, Ducassou, D, and Guerin, J, Experimental evaluation of a collagen-coated vicryl mesh as a dural substitute, Neurosurgery, 30: 396-401, 1992
		Goins, KM, Khadem, J, Majmudar, PA, and Ernest, JT, Photodynamic biologic tissue glue to enhance corneal wound healing after radial keratotomy, J. Cataract Refract. Surg., 23: 1331-1338, 1997
		Nakayama, Y and Matsuda, T, Photocurable surgical tissue adhesive glues composed of photoreactive gelatin and poly(ethylene glycol) diacrylate, J. Biomed. Mater. Res., 48:511-521, 1999.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (Modified)

FORM PTO-1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
P00593SERIAL NO.  
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FILING DATE 10/09/01

GROUP 1654

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER						ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6	4	7	1	9	9	3	Shastri et al.			
	5	4	1	2	0	7	6	Gagnieu			
	5	6	9	0	6	7	5	Sawyer et al.			
	6	5	4	7	7	9	4	Auge, II			
	5	7	4	9	8	9	5	Sawyer et al.			
	5	8	9	5	4	1	2	Tucker			
	5	7	9	1	3	5	2	Reich et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

	Feito, BA, Rath, AM, Longchampt, E, Azorin, J, Experimental study on the in vivo behavior of a new collagen glue in lung surgery, Eur. J. Cardiothorac. Surg., 17:8-13, 2000
	Czerny, M, Verrel, F, Weber, H, Muller, N, Kircheis, L, Lang, W, Steckmeier, B, and Trubel, W, Collagen patch coated with fibrin glue components. Treatment of suture hole bleedings in vascular reconstruction, J. Cardiovasc. Surg., 41:553-557, 2000
	Sekine, T, Nkamura, T, Shimizu, Y, Ueda, H, Matsumoto, Y, Takimoto, Y, and Kiyotani, T, A new type of surgical adhesive made from porcine collagen and polyglutamic acid, J. Biomed. Mater. Res., 54:305-310, 2001
	Baar, S, Schorner, C, Rollinghoff, M, Radespiel-Troger, M, Hummer, HP and Carbon, RT, Collagen patches impregnated with antimicrobial agents have a high local antimicrobial efficacy and achieve tissue gluing, Infection, 29:27-31, 2001
	Oiwa, H, Takamoto, S, Murakami, A, Tanaka, O, and Furuse, A, Experimental study of small arterial anastomosis with gelatin-recorcinol-formaldehyde glue and collagen sheet, Artif. Organs 25:281-291, 2001
	Okino, H, Nakayama, Y, Tanaka, M, and Matsuda, T, In situ hydrogelation of photocurable gelatin and drug release, J. Biomed. Mater. Res., 59:233-245, 2002
	Wise, PE, Wudel, LJ, Jr, Belous, AE, Allos, TM, Kuhn, SJ, Fuerer, ID, Washington, MK, Pinson, CW, and Chapman, WC, Biliary reconstruction is enhanced with a collagen-polyethylene glycol sealant, Am. Surg., 68:561-562, 2002
	Martis, G, Miko, I, Szendroi, T, Kathy, S, Kovacs, J, Hajdu, Z, Results with collagen fleece coated with fibrin glue (TachoComb). A macroscopical and histological experimental study, Acta Chir. Hung., 36:221-222, 1997

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**GROUP 1654**

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(Use several sheets if necessary)

(3) ~~CFR~~ 1.98(b)

## U.S. PATENT DOCUMENTS

[illegible]**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

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										DATE				YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)**

			Caroli et al., "An experimental study of a cyanoacrylate biological adhesive in view of its use in the fixation of various fractures of the fingers," Ann. Chir. Main Memb. Super. 1997, 16(2) pp. 138-45 (Abstract)
			Reece et al., "A prospectus on tissue adhesives," The American Journal of Surgery, 182 (2001) 40S-44S.

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